

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-039975

(43)Date of publication of application : 13.02.2001

(51)Int.Cl. C07D401/12
// A61K 31/00
A61K 31/44

(21)Application number : 11-210654 (71)Applicant : EISAI CO LTD
(22)Date of filing : 26.07.1999 (72)Inventor : TSUJII MASAHIKO
SHINKAWA NOBUO
HASEBE TAKASHI

(54) CRYSTAL OF SULFOXIDE DERIVATIVE AND ITS PRODUCTION

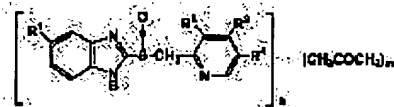
(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a new crystal of the subject derivative useful as a medicine (an intermediate thereof) such as a gastric acid secretion inhibitor/antiulcerous agent and excellent in pharmaceutical processability and storage stability/moisture resistance as an original drug or pharmaceutical preparation, by crystallizing the subject derivative so as to have a specific structure.



I

SOLUTION: This crystal of the subject derivative (salt) is obtained by producing a crystal thereof having a



II

structure of formula I [R1 is H or (difluoro) methoxy; R2 is methyl or methoxy; R3 is 3-methoxypropoxy, methoxy or 2,2,2- trifluoroethoxy; R4 is H or methyl; and B is H, an alkali metal or a 1/2 alkaline earth metal] {e.g. 2-[[4-(3-methoxypropoxy)-3-methylpyridin-2-yl]methylsulfonyl]-1 H-benzimidazole sodium salt crystal}. The crystal of the derivative of formula I (salt) can be produced by, for example, crystallizing an acetone complex of a sulfoxide derivative (salt) of formula II ((n) and (m) are each 1-4) in a lower fatty acid ester.

LEGAL STATUS

[Date of request for examination]

01.08.2003

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office